

TCP PROXY CONNECTION MANAGEMENT IN A GIGABIT ENVIRONMENT

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5 **ABSTRACT**

10 The present invention describes a method and apparatus to effectively manage
data buffers for a client and a server connection in a multiple connection environment.
The TCP processes of servers and clients are merged into an independent TCP
process in a TCP 'proxy' server. The TCP proxy server includes a control unit and a
data switching unit (the proxy application). The TCP proxy server terminates the
client TCP connection and initiates a separate TCP connection with the server. The
data switching unit binds the two individual connections. The TCP proxy server
portrays the actual server TCP. The control unit in the TCP proxy server manages
15 data buffers, control memory and supports multiple connections. The control unit
'pushes' the data into the buffers by monitoring the use of the buffers. The control
unit does not wait for data requests from the data switching unit thus, eliminating the
overhead of data request messages.